

UNIVERSITI TERKNOLOGI MARA (UITM) CAWANGAN KEDAH COLLEGE OF COMPUTING, INFORMATICS AND MEDIA

DIPLOMA IN LIBRARY INFORMATICS (CDIM144)

PROGRAMMING FOR LIBRARIES (IML208)

ASSIGNMENT 1: INDIVIDUAL PROJECT

PREPARED BY:

PUTRI NURIMAN CHEMPAKA BINTI EMI WAZIR (2022299966)

CLASS:

KIM144 3B

PREPARED FOR:

SIR AIRUL SHAZWAN BIN NORSHAHIMI

SUBMISSION DATE: 4TH JANUARY 2024

ASSIGNMENT 1: INDIVIDUAL PROJECT

NAME: PUTRI NURIMAN CHEMPAKA BINTI EMI WAZIR (2022299966)

DIPLOMA IN LIBRARY INFORMATICS

COLLEGE OF COMPUTING, INFORMATICS AND MEDIA

UNIVERSITI TEKNOLOGI MARA (UITM) CAWANGAN KEDAH

4TH JANUARY 2024

TABLE OF CONTENT

	CONTENT	PAGES
1.0	Introduction	1
2.0	Flowchart	2
3.0	Snapshot of Code	3-4
4.0	Snapshot of GUI	5
5.0	Snapshot of Database	5-6
	5.1 Structure 5.2 Browse	
6.0	Conclusion	6

1.0 INTRODUCTION

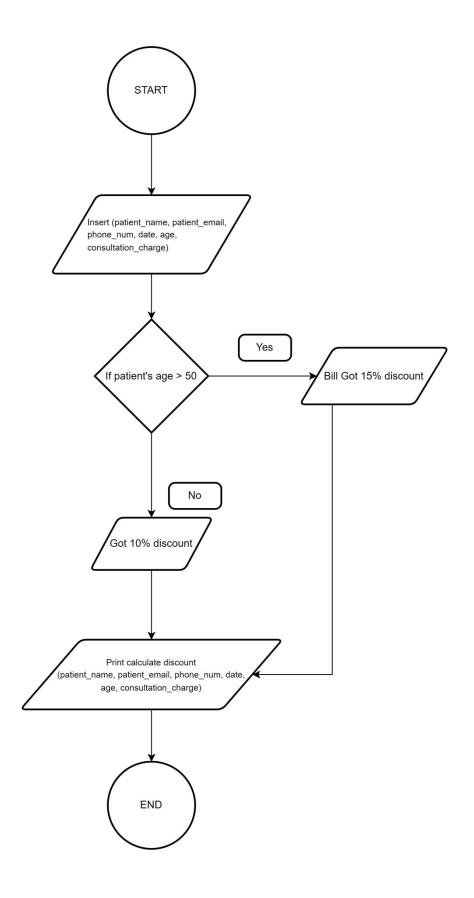
The creation of software programs or code that communicates with and makes use of external libraries is commonly referred to as programming for libraries. Programming libraries are groups of pre-written functions or code that carry out particular tasks. Instead of coding everything from scratch, programmers can save time and effort by utilizing libraries, which make use of pre-written code.

I had to design and construct a single, basic computer interface with Create and Read functions for my individual assignment. My selection for a topic is Clinic Online Appointment. The process of making and managing medical appointments using online platforms or systems is referred to as a clinic online appointment.

Name, email, phone number, and age of the patient are all entered into the system. The staff must also type in the patient's consultation fee and appointment date. It includes a formula that shows patients will receive a 15% discount if they are 50 years of age or older. If they are younger than that, they will receive a 10% discount.

This eliminates the requirement for patients to call or visit the clinic in order to schedule appointments with medical professionals like doctors or specialists. Patients and medical professionals will find the online appointment system more convenient as it simplifies the scheduling process.

2.0 FLOWCHART



3.0 SNAPSHOT OF CODE

```
import tkinter as tk
from tkinter import ttk
import mysql.connector
def collect_data():
   patient name = patient name entry.get()
    patient_email = email_entry.get()
    phone_num = int(phone_num_entry.get())
   date = date_appointment_entry.get()
    age = int(age_label_entry.get())
    consultation charge = float(consultation entry.get())
     # Connect to your MySQL database
   mydb = mysql.connector.connect(
        host="localhost",
        user="root",
       password="",
       database="clinic appointment"
# Create a cursor object to execute SQL queries
   mycursor = mydb.cursor()
   if age >= 50:
       discount percent = 15
    else:
        discount_percent = 10
    discount_amount = (discount_percent / 100) * consultation_charge
   discounted_price = consultation_charge - discount_amount
    result_label.config(text=f"Discounted Price:
RM{discounted price: .2f}")
```

```
# Insert Data to Database
        sql = "INSERT INTO patient_data (patient_name, patient_email,
phone_num, date, patient_age, consultation_charge) VALUES
(%s, %s, %s, %s, %s, %s)"
    values = (patient_name, patient_email, phone_num, date, age,
discounted_price)
    mycursor.execute(sql, values)
    mydb.commit()
# Your Main window
root = tk.Tk()
root.title("Clinic Appointment System")
```

```
root.geometry('400x400')
root.configure(bg='tan')

# Create Label
patient_name_label = tk.Label(root, text="Patient Name : ")
email_label = tk.Label(root, text="Patient Email : ")
phone_num_label = tk.Label(root, text="Phone Number : ")
date_appointment_label= tk.Label(root, text="Date (YYYY-MM-DD) : ")
age_label = tk.Label(root, text="Patient Age : ")
consultation_label = tk.Label(root, text="Consultation Charge : ")
```

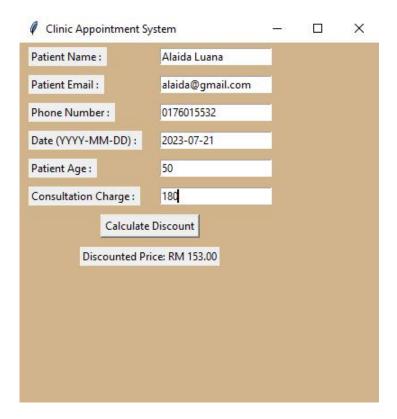
```
patient_name_label.grid(row=0, column=0, sticky=tk.W, padx=10, pady=5)
email label.grid(row=1, column=0, sticky=tk.W, padx=10, pady=5)
phone_num_label.grid(row=2, column=0, sticky=tk.W, padx=10, pady=5)
date_appointment_label.grid(row=3, column=0, sticky=tk.W, padx=10,
pady=5)
age_label.grid(row=4, column=0, sticky=tk.W, padx=10, pady=5)
consultation_label.grid(row=5, column=0, sticky=tk.W, padx=10, pady=5)
# Create Entry Widget
patient_name_entry = tk.Entry(root)
email_entry = tk.Entry(root)
phone_num_entry = tk.Entry(root)
date_appointment_entry = tk.Entry(root)
age_label_entry = tk.Entry(root)
consultation_entry = tk.Entry(root)
patient_name_entry.grid(row=0, column=1, padx=10, pady=5)
email_entry.grid(row=1, column=1, padx=10, pady=5)
phone_num_entry.grid(row=2, column=1, padx=10, pady=5)
date_appointment_entry.grid(row=3, column=1, padx=10, pady=5)
age_label_entry.grid(row=4, column=1, padx=10, pady=5)
consultation_entry.grid (row=5, column=1, padx=10, pady=5)
```

```
# Save Button
save_button = tk.Button(root, text="Calculate Discount",
command=collect_data)
save_button.grid(row=6, column=0, columnspan=2, pady=5)
```

```
# Output label & result
result_label = tk.Label(root, text="")
result_label.grid(row=7, column=0, columnspan=2, pady=5)
```

```
root.mainloop()
```

4.0 SNAPSHOT OF GUI

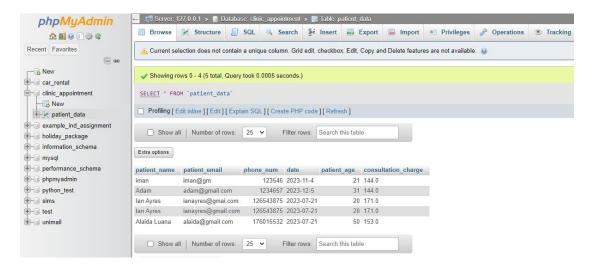


5.0 SNAPSHOT OF DATABASE

5.1 Structure



5.2 Browse



6.0 CONCLUSION

In conclusion, Python and MySQL together can be a very effective tool for creating database-driven applications. From what I can see, MySQL is a popular relational database that can manage a variety of data kinds and relationships and Python is a flexible programming language appropriate for a wide range of applications.

Also, from my individual project's topic, healthcare providers can increase patient satisfaction, decrease administrative burden and increase efficiency by putting in place an online clinic appointment system. Better resource management is also made possible, and clinics are assisted in adjusting to changing healthcare trends like the growing use of telemedicine.

Lastly, I express my gratitude to my lecturer and fellow students for their invaluable assistance with this unique assignment. I'm hoping that my diligence will be rewarded with high marks.